

In the claims

1(Currently Amended). A capacitor, comprising:

a first nickel electrode electrically connected to an aluminum lead of an integrated circuit and applied on a passivation layer of the integrated circuit;
a BCTZ dielectric covering a side of the first nickel electrode; and
a second nickel electrode sandwiching the BCTZ.

2(Original). The capacitor of claim 1, wherein the BCTZ contains from eighty eight to one hundred atoms of barium for every twelve to zero atoms of calcium.

3(Original). The capacitor of claim 1, wherein the BCTZ contains eighty two to ninety atoms of titanium for each ten to eighteen atoms of zirconium.

4(Currently Amended). The capacitor of claim 1, wherein the BCTZ is applied at a temperature not exceeding 450° C. ~~first nickel electrode is adjacent to an aluminum lead on an~~ the integrated circuit.

5(Currently Amended). The capacitor of claim [4]1, wherein the second nickel electrode is electrically connected to a second aluminum lead on the integrated circuit.

6(Currently Amended) The capacitor of claim 5, wherein the second nickel electrode is a base for solder to be reflowed to form ~~the~~ a bump.

7(Previously Amended). A decoupling capacitor for an integrated circuit, comprising:

a first nickel electrode coupled to an aluminum electrical lead of the integrated circuit;

a BCTZ dielectric applied to the first nickel electrode; and

a second nickel electrode applied to the dielectric and electrically attached to a second electrical lead of the integrated circuit.

8(Cancelled).

9(Original). The decoupling capacitor of claim 7, wherein a portion of the second nickel electrode is deposited on a passivation layer of the integrated circuit.

10(Currently Amended). The decoupling capacitor of claim 8 7, further including an insulator applied to an edge of the BCTZ.

11(Original). The decoupling capacitor of claim 10, wherein the insulator is applied to a portion of the first nickel electrode.

12(Original). The decoupling capacitor of claim 7, wherein a layer of aluminum is applied over the second nickel electrode.

13(Original). The decoupling capacitor of claim 12, wherein a wire lead is attached to the layer of aluminum.

Claims 14-20(Cancelled)

21(Previously Amended) A decoupling capacitor for an integrated circuit, comprising:

- a first electrode electrically connected to an aluminum lead of the integrated circuit and applied on a passivation layer of the integrated circuit;
- a BCTZ dielectric adjacent to the first electrode; and
- a second electrode adjacent to the dielectric.

22(Original). The decoupling capacitor of claim 21, wherein the first electrode is nickel.

23(Cancelled).